IN THE CLAIMS

1. (Currently Amended) An absorbing composition comprising at least one inorganic-based compound, at least one organic-based absorbing compound, and at least one material modification agent, wherein the at least one material modification agent comprises at least one adhesion promoter, at least one crosslinking agent, at least one porogen, at least one catalyst, at least one capping agent, at least one pH tuning agent or a combination thereof, wherein the at least one adhesion promoter comprises APTEOS triflate, APTEOS methanesulfonate, APTEOS nitrate, APTEOS nfbs, ammonium triflate, ammonium nfbs, ammonium methanesulfonate, ammonium nitrate, TMAH triflate, TMAH nfbs, TMAH methanesulfonate, TMAA, TMAN, TMAH nitrate or a combination thereof, wherein the at least one adhesion promoter does not initiate ~~significant~~ crosslinking activity in the composition and wherein the absorbing compound ~~strongly~~ absorbs light over at least an approximately 0.5 nm wide wavelength range at wavelengths less than 375 nm.

Claim 2: Canceled.

3. (Previously Presented) The composition of claim 1, wherein the organic-based absorbing compound is an carbon-containing compound.

Claim 4: Canceled.

5. (Original) The composition of claim 1, wherein the absorbing compound strongly absorbs light over at least an approximately 10 nm wide wavelength range at wavelengths less than 375 nm.

6. (Original) The composition of claim 4, wherein the range comprises wavelengths less than about 260 nm.

7. (Original) The composition of claim 1, wherein the absorbing compound comprises at least one benzene ring and a reactive group selected from the group comprising hydroxyl groups, amine groups, carboxylic acid groups and substituted silyl groups.

8. (Original) The composition of claim 7, wherein the absorbing compound comprises two or more benzene rings.

9. (Original) The composition of claim 8, wherein the two or more benzene rings are fused.

10. (Original) The composition of claim 7, wherein the organic absorbing compound comprises an absorbing compound comprising anthraflavic acid, 9-anthracene carboxylic acid, 9-anthracene methanol, alizarin, quinizarin, primuline, 2-hydroxy-4(3-triethoxysilylpropoxy)-diphenylketone, rosolic acid, triethoxysilylpropyl-1,8-naphthalimide, 9-anthracene carboxy-alkyl triethoxysilane, phenyltriethoxysilane, 10-phenanthrene carboxy-methyl triethoxysilane, 4-phenylazophenol, 4-ethoxyphenylazobenzene-4-carboxy-methyl triethoxysilane, 4-methoxyphenylazobenzene-4-carboxy-methyl triethoxysilane or mixtures thereof.

11. (Original) The composition of claim 1, wherein the inorganic-based compound comprises a silicon-based compound.

12. (Original) The composition of claim 11, wherein the silicon-based compound comprises a polymer.

13. (Currently Amended) The composition of claim 12, wherein the polymer comprises an organosiloxane compound~~, such as methylsiloxane, methylsilsesquioxane, phenylsiloxane, phenylsilsesquioxane, acrylic siloxane polymers, methylphenylsiloxane, methylphenylsilsesquioxane, silicate polymers, silazane polymers or mixtures thereof~~.

14. (Previously Presented) The composition of claim 12, wherein the polymer comprises hydrogensiloxane, hydrogensilsesquioxane, organohydridosiloxane, silsesquioxane-based compounds, derivatives of silicic acid and organohydridosilsesquioxane polymers; copolymers of hydrogensilsesquioxane and an alkoxyhydridosiloxane, hydroxyhydridosiloxane, derivatives of silicic acid or mixtures thereof.

15. (Original) The composition of claim 12, wherein the polymer is of a general formula comprising $(H_{0\text{-}1.0}SiO_{1.5\text{-}2.0})_x$, where x is greater than about 4, and $(H_{0\text{-}1.0}SiO_{1.5\text{-}2.0})_n(R_{0\text{-}1.0}SiO_{1.5\text{-}2.0})_m$, where m is greater than 0, the sum of n and m is

from about 4 to about 5000 and R is a C_1-C_{20} alkyl group or a C_6-C_{12} aryl group.

Claims 16-17: Canceled.

18. (Previously Presented) The composition of claim 1, wherein the at least one adhesion promoter further comprises phosphorus.

Claims 19-25: Canceled.

26. (Previously Presented) The composition of claim 1, wherein the at least one adhesion promoter further comprises an acid.

27. (Previously Presented) The composition of claim 1, the at least one adhesion promoter further comprises a neutral compound.

28. (Previously Presented) The composition of claim 1, wherein the at least one adhesion promoter further comprises a weak acid.

29. (Previously Presented) The composition of claim 1, wherein the at least one adhesion promoter further comprises a resin-based material.

30. (Original) The composition of claim 29, wherein the resin-based material comprises at least one of a phenolic-containing resin, a novolac resin, an organic acrylate resin or a styrene resin.

31. (Previously Presented) The composition of claim 1, wherein the adhesion promoter further comprises a polydimethylsiloxane-based material, an alkoxy or hydroxy-containing silane monomer, a vinyl-containing silane monomer, an acrylated silane monomer or a silyl hydride compound.

Claims 32-36: Canceled.

37. (Previously Presented) The composition of claim 1, wherein the at least one porogen further comprises a catalyst and wherein the catalyst comprises TMAA, TMAN, TBAA, TBAN, CTAA, CTAN or a combination thereof.

Claims 38-58: Canceled.

59. (New) The composition of claim 13, wherein the organosiloxane comprises

methylsiloxane, methylsilsesquioxane, phenylsiloxane, phenylsilsesquioxane, acrylic siloxane polymers, methylphenylsiloxane, methylphenylsilsesquioxane, silicate polymers, silazane polymers or mixtures thereof